



Digital Switchover Transmitter Details

Wales

Issue 4.0

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Digital Switchover Transmitter Details: Wales

This document contains details of the transmission characteristics which the television transmitter network in Wales adopted at digital switchover.

A key to column headings is provided in the Glossary.

If you would like to be kept informed of any changes or update to these details, please join our digital transmitter mailing list by sending an email to broadcast.technical@ofcom.org.uk, with the word 'subscribe' as the message subject.

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Blaenplwyf transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Blaenplwyf	SN569756	27	40kW	24	40kW	21+	40kW	AH
Aberystwyth	SN587820	58	40W	61	40W	54	40W	C/DV
Afon Dyfi	SH844061	22	2W	25	2W	28	2W	AV
Beddgelert	SH582476	62-	2W	59	2W	55	2W	C/DV
Beddgelert Link	SH592490	27	2W	24	2W	21+	2W	AV
Bow Street	SN624845	44	17.2W	41+	17.2W	47	17.2W	BV
Corris	SH759067	45	2W	49	2W	42	2W	BV
Cwrtnwydd	SN486476	44	2W	41+	2W	47	2W	BV
Dolybont	SN628889	57	20W	60	20W	53	20W	C/DV
Machynlleth	SH723003	57	4W	60	4W	53	4W	C/DV
Penrhyn-coch	SN633844	62-	14.4W	59	14.4W	55	14.4W	C/DV
Trefilan	SN562554	57	17.2W	60	17.2W	53	17.2W	C/DV
Ynys-Pennal	SN688983	44	4W	41+	4W	47	4W	BV

Blaenplwyf transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Blaenplwyf	SN569756	25	10kW	22+	10kW	28	10kW	AH

Carmel transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Carmel	SN576153	60	20kW	53	20kW	57	20kW	C/DH
Abercraf	SN851123	25	25W	28	25W	22	25W	AV
Brechfa	SN504289	27	3.6W	24	3.6W	21+	3.6W	AV
Bronwydd Arms	SN414237	27	2W	24	2W	21+	2W	AV
Builth Wells	SO036528	25	5.2W	22	5.2W	28	5.2W	AV
Cilycwm	SN777406	27	2W	24	2W	21+	2W	AV
Cwmtwrch	SN760106	24	3.2W	21+	3.2W	27	3.2W	AV
Cwm-gors	SN705123	24	5.2W	27	5.2W	21+	5.2W	AV
Erwood	SO089428	60	2W	53	2W	57	2W	C/DV

Site Name	NGR	BBC A		D3&4		BBC B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Greenhill	SM924015	24	30W	27	30W	21+	30W	AV
Llandrindod Wells	SO018635	49	400W	42	400W	45	400W	BV
Llanelli	SN510023	49	20W	45	20W	42	20W	BV
Llansawel	SN618368	28	2W	25	2W	22	2W	AV
Llanwrtyd Wells	SN899454	24	2W	21+	2W	27	2W	AV
Penderyn	SN956087	49	2.6W	42	2.6W	45	2.6W	BV
Rhayader	SN985702	23	20W	29	20W	26	20W	AV
Talley	SN639332	49	2W	42	2W	45	2W	BV
Tenby	SS109994	56-	20W	48	20W	52-	20W	C/DV
Ystalyfera	SN779078	49	1W	42	1W	45	1W	BV

Carmel transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Carmel	SN576153	54	10kW	58	10kW	61	10kW	C/DH

Kilvey Hill transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Kilvey Hill	SS671940	23	2kW	26	2kW	29	2kW	AV
Alltwen	SN716039	43	2W	46	2W	50	2W	BV
Briton Ferry	SS747956	43	4W	46	4W	50	4W	BV
Burry Port	SN449019	61	2W	58	2W	54	2W	C/DV
Cilfrew	SS775986	49	3W	45	3W	42	3W	BV
Craig-Cefn-Parc	SN682020	43	2W	46	2W	50	2W	BV
Efail-fach	SS786958	49	2W	45	2W	52	2W	BV
Mynydd Emroch	SS775901	43	18W	46	18W	50	18W	BV
Neath Abbey HP	SS731980	52	10W	48	10W	56	10W	C/DH
Neath Abbey VP	SS731980	52	10W	48	10W	56	10W	C/DV
Pontardawe	SN732037	61	25W	58	25W	54	25W	C/DV

Kilvey Hill transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Kilvey Hill	SS671940	25	2kW	22	2kW	28	2kW	AV

Llandona transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Llandona	SH582810	57	20kW	60	20kW	53	20kW	E/WH
Amlwch	SH436920	22	7W	25	7W	28	7W	AV
Arfon	SH476493	41+	2kW	44	2kW	47	2kW	BV
Bethesda	SH613663	57	5W	60	5W	53	5W	C/DV
Bethesda North	SH627672	28	2W	25	2W	22	2W	AV
Betws-y-Coed	SH824582	27	100W	24	100W	21+	100W	AV
Caergybi	SH247817	21+	2W	24	2W	27	2W	AV
Caernarfon	SH486629	24	5W	27	5W	21+	5W	AV
Cemaes	SH373926	45	5.6W	49	5.6W	42	5.6W	BV
Coed Derw	SH794572	43	4W	50	4W	46	4W	BV
Conway	SH781765	47	400W	41+	400W	44	400W	BV
Deiniolen	SH576621	22	8W	25	8W	28	8W	AV
Dolwyddelan	SH740528	44	2.2W	41+	2.2W	47	2.2W	BV
Ffestiniog	SH709391	25	240W	22	240W	28	240W	AV
Gronant	SJ088833	26	8W	29	8W	23	8W	AV
Llandecwyn	SH644371	61	60W	58	60W	54	60W	C/DV
Llanengan	SH283278	61	10W	58	10W	54	10W	C/DH
Maentwrog	SH656407	43	3.2W	50	3.2W	46	3.2W	BV
Mochdre	SH829786	26	2W	23	2W	29	2W	AV
Morfa Nefyn	SH285358	25	14W	28	14W	22	14W	AV
Prestatyn	SJ073822	22	2W	25	2W	28	2W	AV
Trefor	SH376455	45	10W	49	10W	42	10W	BV
Waunfawr	SH529600	25	5.2W	28	5.2W	22	5.2W	AV

Llanddona transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Llanddona	SH582810	43	10kW	46	10kW	50	10kW	E/WH

Long Mountain transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Long Mountain^a	SJ265057	60	400W	53	400W	57	400W	C/DV
Broneirion	SO018884	29	2W	23	2W	26	2W	AV
Carno	SN950961	24	2W	27	2W	21+	2W	AV
Castle Caereinion	SJ177058	46	2W	43	2W	50	2W	BV
Kerry	SO150908	27	3.4W	24	3.4W	21+	3.4W	AV
Llanbrynmair	SH892046	25	4W	28	4W	22	4W	AV
Llandinam	SO050877	41+	50W	47	50W	44	50W	BV
Llanfyllin	SJ150180	28	25W	25	25W	22	25W	AV
Llangadfan	SJ020091	28	2W	25	2W	22	2W	AV
Llangurig	SN900794	23	2W	29	2W	26	2W	AV
Llangynog	SJ051259	62-	2W	55	2W	59	2W	C/DV
Llanidloes	SN947843	25	2W	28	2W	22	2W	AV
Llanrhaeadr-ym-Mochnant	SJ174260	45	15.4W	49	15.4W	42	15.4W	BV
Moel y Sant	SJ151105	27	23W	24	23W	21+	23W	AV
Tregynon	SO110963	28	7W	25	7W	22	7W	AV

Moel y Parc transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Moel y Parc	SJ123701	45	20kW	49+	20kW	42	20kW	BH
Bala	SH968375	26	40W	23	40W	29	40W	AV
Betws-yn-Rhos	SH899756	27	2.5W	24	2.5W	21+	2.5W	AV
Cefn-mawr	SJ267409	57	50W	53	50W	60	50W	C/DV

^a Until October 2011, D3&4 at Long Mountain will operate on channel 52, and BBC B will operate on channel 56.

Site Name	NGR	BBC A		D3&4		BBC B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Cerrigydrudion	SH933482	26	6.4W	23	6.4W	29	6.4W	AV
Corwen	SJ080431	28	40W	25	40W	22	40W	AV
Cyffylliog	SJ063580	28	2W	25	2W	22	2W	AV
Glyn Ceiriog	SJ203386	58	2W	61	2W	54	2W	C/DV
Glyndyfrdwy	SJ158429	62-	2W	59	2W	55	2W	C/DV
Llanarmon-yn-iâl	SJ194582	27	2W	24	2W	21+	2W	AV
Llandderfel	SH990358	62-	2W	55	2W	59	2W	C/DV
Llanddulas	SH910784	26	3W	23	3W	29	3W	AH
Llangernyw	SH881660	28	2W	22	2W	25	2W	AV
Llangollen	SJ204421	58	2W	61	2W	54	2W	C/DV
Llanuwchllyn	SH873326	46	6W	43	6W	50	6W	BV
Penmaen Rhos	SH877779	22	28W	25	28W	28	28W	AV
Pen-y-Banc	SJ077497	27	2W	24	2W	21+	2W	AV
Pontfadog	SJ219356	28	2W	25	2W	22	2W	AV
Pwll-Glas	SJ119541	26	2W	23	2W	29	2W	AV
Storeton Wales ^b	SJ314841	57	500W	53	500W	60	500W	C/DH
Wrexham Rhos	SJ300537	28	80W	22	80W	25	80W	AV

Moel y Parc transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Moel y Parc^c	SJ123701	51-	10kW	52+	10kW	48-	10kW	BH

Preseli transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Preseli	SN172306	43+	20kW	46+	20kW	50+	20kW	BH
Abergwynfi	SS886971	24	2W	21+	2W	27	2W	AV
Broad Haven	SM861130	61	8W	58	8W	54	8W	C/DV

^b Storeton Wales carries Welsh regional services, and replaces the former 2 channel analogue relays at Flint, Bagillt and Holywell

^c Until September 2011, SDN and Arqiva A at Moel-y-Parc will operate at 2.5kW.

Site Name	NGR	BBC A		D3&4		BBC B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Bronnant	SN664664	23	3.2W	29	3.2W	26	3.2W	AV
Croeserw HP	SS857952	61	2W	58	2W	54	2W	C/DH
Croeserw VP	SS857952	61	24W	58	24W	54	24W	C/DV
Cynwyl Elfed	SN375273	25	2W	22	2W	28	2W	AV
Dolgellau	SH727185	59	4W	55	4W	62-	4W	C/DV
Duffryn	SS834956	25	2W	22	2W	28	2W	AV
Ferryside	SN371104	21+	25W	30-	5W	24	25W	AV
Fishguard	SM944391	61	25W	58	25W	54	25W	C/DV
Glyncorrwg	SS871989	49	2W	45	2W	42	2W	BV
Haverfordwest	SN028261	56	100W	52	100W	48	100W	C/DH
Llandyfriog	SN348412	25	22W	22	22W	28	22W	AV
Llandysul	SN425409	60	15.2W	57	15.2W	53	15.2W	C/DV
Llangrannog	SN322538	25	8W	22	8W	28	8W	AV
Llangybi	SN614524	25	2.6W	22	2.6W	28	2.6W	AV
Llwyn Onn	SH625174	25	7W	22	7W	28	7W	AV
Mynydd Pencarreg	SN577430	61	24W	58	24W	54	24W	C/DV
Newport Bay	SN066414	47+	10W	51+	10W	44+	10W	BV
Pembroke Dock	SM967028	61	5W	58	5W	54	5W	C/DV
Pencader	SN451370	23	2W	26	2W	29	2W	AV
Rheola	SN841061	59	20W	55	20W	62-	20W	C/DV
St Davids	SM751254	23	16W	26	16W	29	16W	AV
St Dogmaels	SN165452	23	3W	26	3W	29	3W	AV
Trefin	SM848310	25	100W	22	100W	28	100W	AV
Tregaron	SN686605	55	3W	62-	3W	59	3W	C/DV
Ystumtuen	SN740795	49-	10W	45-	10W	42-	10W	BV

Preseli transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Preseli	SN172306	42-	10kW	45-	10kW	49-	10kW	BH
Ferryside	SN371104	27	25W					AV

Wenvoe transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Wenvoe	ST110741	41+	100kW	44	100kW	47	100kW	BH
Aberbeeg	SO215029	43	2W	50	2W	46	2W	BV
Abercynon	ST093952	58	2W	54	2W	61	2W	C/DH
Aberdare	SO034012	24-	100W	21+	100W	27-	100W	AV
Abergavenny	SO244126	49	200W	42	200W	45	200W	BV
Abertillery	SO224023	25	56W	22	56W	28	56W	AV
Abertridwr	ST123885	60	10W	57	10W	53	10W	C/DV
Bargoed	SO145010	24	60W	21+	60W	27	60W	AV
Bedlinog	SO102005	24	2W	21+	2W	27	2W	AV
Blackmill	SS930866	25	2W	22	2W	28	2W	AV
Blaenau Gwent	SO215049	60	2.2W	57	2.2W	53	2.2W	C/DV
Blaenavon	SO277063	60	30W	57	30W	53	30W	C/DV
Blaenllechau	SS999976	24	2W	21+	2W	27	2W	AH
Blaina	SO196083	43	20W	50	20W	46	20W	BV
Brecon	SO054287	61	200W	54	200W	58	200W	C/DV
Chepstow	ST544939	24	2W	21+	2W	27	2W	AV
Clydach	SO227125	23	2W	29	2W	26	2W	AV
Clyro	SO204432	41+	32W	47	32W	44	32W	BV
Crickhowell	SO206202	24	30W	21+	30W	27	30W	AV
Crucorney	SO323222	24	2.2W	27	2.2W	21+	2.2W	AV
Crumlin	ST228984	60	2W	57	2W	53	2W	C/DV
Cwm Ffrwd oer	SO265014	43	2W	46	2W	50	2W	BV
Cwmafon	SS798936	24	14W	21+	14W	27	14W	AV
Cwmaman	ST000993	49	2W	42	2W	45	2W	BV
Cwmfelinfach	ST184909	48	2W	52	2W	56	2W	C/DV
Deri	SO121022	25	1W	22	1W	28	1W	AV
Dowlais	SO073088	61	2.6W	58	2.6W	54	2.6W	C/DV
Ebbw Vale	SO159088	59	100W	55	100W	62-	100W	C/DV
Ebbw Vale South	SO176073	24	4W	27	4W	21+	4W	AV
Ferndale	ST006969	60	20W	57	20W	53	20W	C/DV
Fernhill	ST030993	59	2W	55	2W	62-	2W	C/DV
Gelli-fendigaid	ST070935	59	2.4W	55	2.4W	62-	2.4W	C/DH
Gilfach	SS982890	24	10W	21+	10W	27	10W	AV
Llanfach	ST217947	60	2W	57	2W	53	2W	C/DH
Llanfoist	SO308143	60	14.4W	53	14.4W	57	14.4W	C/DV

Site Name	NGR	BBC A		D3&4		BBC B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Llangeinor	SS905886	59	38W	55	38W	62-	38W	C/DV
Llanharan	SS998832	24	2W	21+	2W	27	2W	AV
Llanhilleth	SO213003	49	10W	42	10W	45	10W	BV
Llyswen	SO137361	24	6W	27	6W	21+	6W	AV
Machen Upper	ST211897	62-	7.2W	55	7.2W	59	7.2W	C/DV
Maesteg	SS841912	25	50W	22	50W	28	50W	AV
Merthyr Tydfil	SO057065	25	25W	22	25W	28	25W	AV
Monmouth	SO526127	59	46W	55	46W	62-	46W	C/DV
Mynydd Bach	ST168926	61	50W	58	50W	54	50W	C/DV
Mynydd Machen	ST223900	23+	400W	26+	400W	29+	400W	AV
Nantyglo	SO189106	60	2W	57	2W	53	2W	C/DV
Nant-y-Moel	SS934935	27	2W	21+	2W	24	2W	AV
Ogmore Vale	SS929894	60	20W	57	20W	53	20W	C/DV
Pennar	ST209958	43	20W	46	20W	50	20W	BV
Pennorth	SO103267	23	10W	29	10W	26	10W	AV
Penrhiwceiber	ST066966	53	2W	57	2W	60	2W	C/DV
Pontypool	ST284990	23+	50W	26+	50W	29+	50W	AV
Pontypridd	ST084904	25	400W	22	400W	28	400W	AV
Porth	ST029919	43	11.8W	46	11.8W	50	11.8W	BV
Rhondda Fach	ST007939	25	2W	22	2W	28	2W	AV
Rhondda HP	SS990938	23	10W	26	10W	29	10W	AH
Rhondda VP	SS990938	23	1kW	26	1kW	29	1kW	AV
Rhymney	SO127043	60	30W	57	30W	53	30W	C/DV
Risca	ST240906	43	2W	46	2W	50	2W	BV
Sennybridge	SN914295	43	12.8W	50	12.8W	46	12.8W	BV
South Maesteg	SS860897	59	2W	55	2W	62-	2W	C/DV
South Tredegar	SO155060	49	2.6W	42	2.6W	45	2.6W	BV
Taffs Well	ST123848	59	10.4W	55	10.4W	62-	10.4W	C/DV
Ton Pentre	SS960955	61	16W	58	16W	54	16W	C/DV
Tonypandy	SS986924	59	2W	55	2W	62-	2W	C/DV
Tonyrefail	ST009874	59	4W	55	4W	62-	4W	C/DV
Trebanog	ST020906	24	2W	27	2W	21+	2W	AV
Trecastle	SN885274	25	2W	22	2W	28	2W	AV
Trefechan	SO030085	42	10W	49	10W	45	10W	BV
Treharris	ST103964	52	10W	48	10W	56	10W	C/DV
Tynewydd	SS931993	59	4W	62-	4W	55	4W	C/DV

Site Name	NGR	BBC A		D3&4		BBC B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Upper Killay	SS590927	24	2W	21+	2W	27	2W	AV
Usk	SO384006	48	3.6W	52	3.6W	56	3.6W	C/DH
Van Terrace	ST168864	49	2W	45	2W	42	2W	BV
Wattsville	ST215911	60	2W	57	2W	53	2W	C/DV
Ynysowen	ST082992	59	16W	55	16W	62-	16W	C/DV

Wenvoe transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		Aerial Group
		Channel	ERP	Channel	ERP	Channel	ERP	
Wenvoe^d	ST110741	42+	50kW	45	50kW	49	50kW	BH
Aberdare	SO034012	25+	100W	22+	100W	28+	100W	AV
Pontypool	ST284990	25-	50W	22-	50W	28-	50W	AV

^d Until April 2011 SDN at Wenvoe will operate on channel 51 (at 10kW ERP) and Arqiva A will operate on channel 30 (at 10kW ERP).

Glossary

Site Name:	The name of the transmitter site. Primary transmitters in each transmitter group are highlighted in bold , with their dependent relays listed alphabetically below them. Public Service Broadcaster (PSB) and Commercial (COM) multiplexes are shown in separate tables.
NGR:	The location of the transmitter site, in Ordnance Survey National Grid Reference format.
Multiplex names:	The post-switchover name of the multiplex. See below for more details
Channel	The UHF channel number of the multiplex. The centre frequency, F_c (in Megahertz) of the multiplex can be calculated using $F_c=8n+306$, where n is the UHF channel number. A + or - following the channel number indicates that the frequency is offset by +0.167MHz or -0.167MHz with respect to the channel centre. Channel numbers highlighted in red are likely to be affected in future by the clearance of channels 61 and 62: see the '800 MHz Clearance' section below.
ERP	The Effective Radiated Power of the multiplex, in watts (W) or kilowatts (kW)
Aerial Group:	Suggested aerial group for reception of the 3 PSB multiplexes (and the 3 COM multiplexes, where broadcast) from this transmitter. See below for more information on aerial groups. The final character in this column indicates whether signals are horizontally (H) or vertically (V) polarised.
Aerial Group Colour codes:	All frequencies at this transmitter were formerly used by analogue channels.
	One or more digital frequencies at this transmitter were formerly unused at this transmitter by analogue TV, but all digital channels fall within the former analogue aerial group.
	One or more digital frequencies at this transmitter were formerly unused at this transmitter by analogue TV, and at least one of these frequencies also falls outside the former analogue aerial group.
DSO	Digital Switchover
Single Frequency networks (SFNs)	In order to maximise digital coverage, some transmitter sites will operate as Single Frequency Networks (SFNs) at switchover. In an SFN, neighbouring transmitters use the same frequencies as each other.

Multiplex Names

The naming convention for the six multiplexes changed at switchover, and the table below compares their pre-switchover and post-switchover designations:

Pre-Switchover Name	Post-Switchover Name	Operator
Multiplex 1	BBC A	BBC
Multiplex 2	D3&4	Digital 3 & 4
Multiplex A	SDN	SDN
Multiplex B	BBC B	BBC
Multiplex C	Arqiva A	Arqiva
Multiplex D	Arqiva B	Arqiva

Aerial Groups

Television aerials are designed to operate most efficiently over a specific range of frequencies, as shown in the table below. For guidance, this document suggests a suitable aerial group for reception of the digital services from each transmitter. Where a transmitter uses a semi-wideband channel grouping (E or K), a wideband (W) aerial is also suggested as an alternative. The colour codes in the table below are often used by aerial manufacturers to aid identification of the aerial's group.

Aerial Group	Channels	Colour Code
A	21-37	Red
B	35-53	Yellow
C/D	48-68	Green
E	35-68	Brown
K	21-48	Grey
W	21-68	Black

Transmission Modes

The post-switchover transmission mode for all multiplexes except BBC B is 64QAM modulation, coding rate 2/3, & 8K FFT.

The BBC B multiplex uses the DVB-T2 standard: 256QAM modulation, coding rate 2/3, & 32K FFT.

Transitional Transmission Characteristics

Transmission frequencies are intensively used in many parts of the UK. To avoid unnecessary interference being caused to viewers, a certain number of multiplexes will need to operate with 'transitional' transmission characteristics for a limited period following switchover at particular transmitters. These transitional characteristics are only likely to affect a small proportion of sites. For example, some channels may need to operate at slightly reduced power levels compared to the final post-switchover allocations shown in this booklet. This is primarily in order to prevent interference being caused to neighbouring transmitters which may not switch over until later in the regional sequence. Full power operation will be adopted when these interference constraints are removed, generally when the neighbouring transmitter or region switches over. Details of known transitional arrangements affecting individual transmitters are provided in footnotes.

800 MHz clearance

In order to align the frequencies released by digital switchover for alternative uses with those released by other European countries, UHF channels 61 and 62 will be 'cleared' of digital TV services over the coming years. UHF channels 39 and 40 (which were previously among the channels due to be released for other uses after switchover) will instead now be retained for TV broadcasting.

In order to minimise changes to domestic aerial groups, the general approach for adopting these changes is that multiplexes using channels 61 or 62 will move to channels 49 or 50, and multiplexes using channels 49 or 50 will move to channels 39 or 40. Other channels may also be affected in some cases. The changes will either be carried out at digital switchover, or sometime after switchover completes (e.g. during 2013). If the changes are to be carried out at digital switchover, an updated version of this guide will be issued.

Multiplexes using channels 61, 62, 49, or 50 are highlighted in **red** in this guide to indicate that these allocations are likely to change in the future.

Transmitter Locations

Maps showing the location of TV transmitters within individual regions are available on Ofcom's website at:

<http://stakeholders.ofcom.org.uk/broadcasting/guidance/tech-guidance/>

Document History

Version	Date	Details
1.0	24/10/2007	Document Issued
2.0	5 /11/ 2008	Com mux names revised. Map removed and replaced with link to online version. Transmission mode section revised to include DVB-T2.
3.0	5/3/2009	Frequency offsets added. Fishguard, Ystumtuen, Mynydd Emroch change transmitter groups and channel allocations. Long Mountain channel allocations and transitional channel allocations changed. Ferryside ERP note added. Moel-y-Parc transitional powers changed. Cefn-mawr transitional powers and analogue frequencies modified Minor editorial amendments. Relay attributions finalised.
4.0	5/1/2011	Format and text changed for post-switchover situation, and analogue details removed. Initial 800Mhz clearance information added. Ferryside SDN power corrected. Editorial amendments.

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